3.   **(currently amended)** The method of claim 1, wherein a value of the second

pixel which is filtered by applying the mean-variance filter to the second pixel is

calculated as,

$$\frac{\sigma_k^2(i,j)k(i,j)+\overline{k}^2(i,j)}{\sigma_k^2(i,j)+\overline{k}(i,j)}$$

value of filtered second pixel=   , and

said $k(i,j)$ is a first pixel value in coordinates (i, j), said $\sigma_k(i,j)$ is the variance of

values of second pixels, and said $\overline{k}(i,j)$ is the mean of the values of the second

pixels.

4.   **(currently amended)** A computer readable ~~record~~ medium ~~recording a~~

~~program for implementing medium~~ <u>**used in association with a computing device**</u>

<u>**which includes a processor and a memory, the computer readable medium**</u>

<u>**including computer instructions which are configured to cause the computing**</u>

<u>**device to implement**</u> the method according to claim 1 ~~in a computer~~.

5.   (Original) A system for removing noise in an image, the system comprising:

a threshold calculation unit dividing image data contained in the image into

predetermined unit areas and calculating each threshold corresponding to the unit area

by using values of pixels contained in the unit area;

a first filter detecting whether a first pixel containing impulsive noise exists in the

unit area by using the calculated threshold and applying a median filter to the first pixel

in the case the first pixel is detected; and